



Conductive-Thread Ribbon Cable and FFC Connectors

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TOOLS:

- [Pliers \(1\)](#)



PARTS:

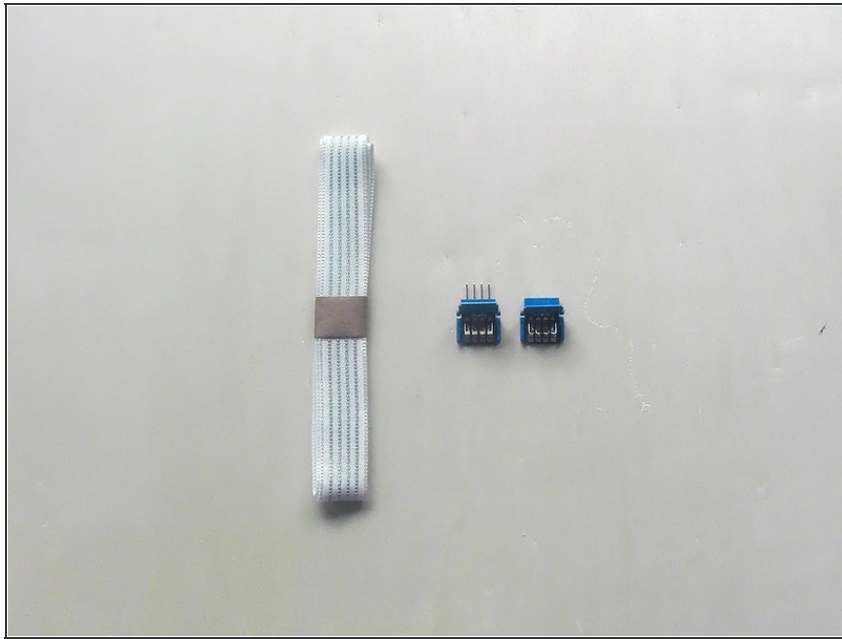
- [conductive thread ribbon cable \(1\)](#)
can buy from Adafruit / SparkFun
- [Flexible Flat Cable \(FFC\) connectors \(2\)](#)
can buy from Digi-Key

SUMMARY

Conductive-thread ribbon cable is the perfect material for wiring wearables because it can be attached just like normal fabric ribbons; it's flexible, sewable and washable.

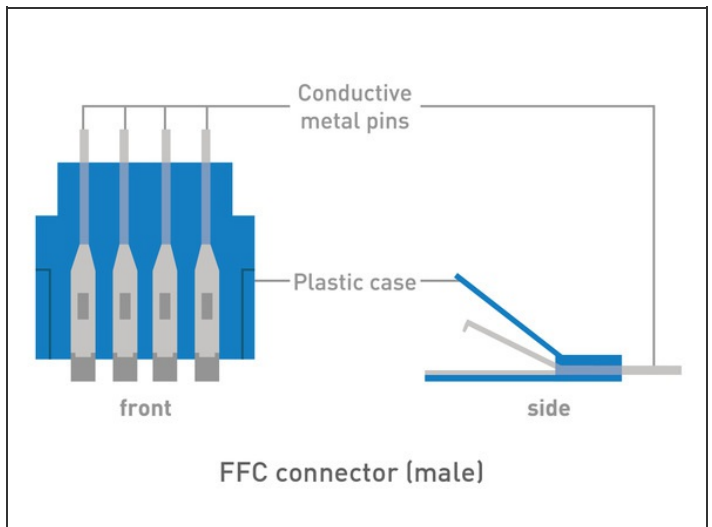
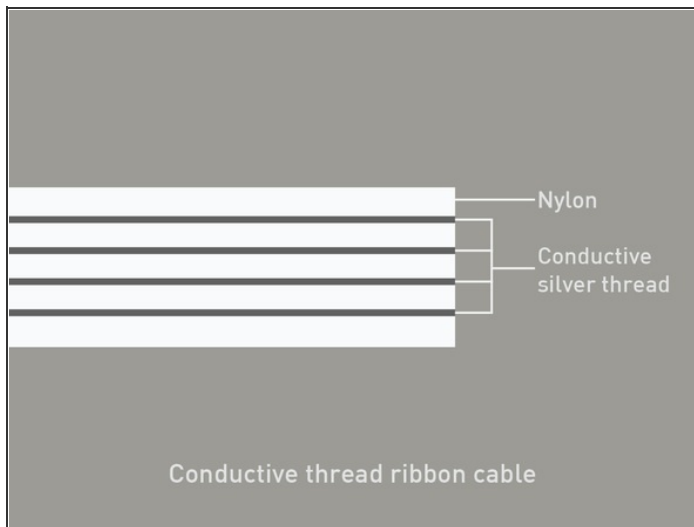
You can easily use conductive-thread ribbon cable by connecting it with FFC connectors.

Step 1 — Conductive-Thread Ribbon Cable and FFC Connectors



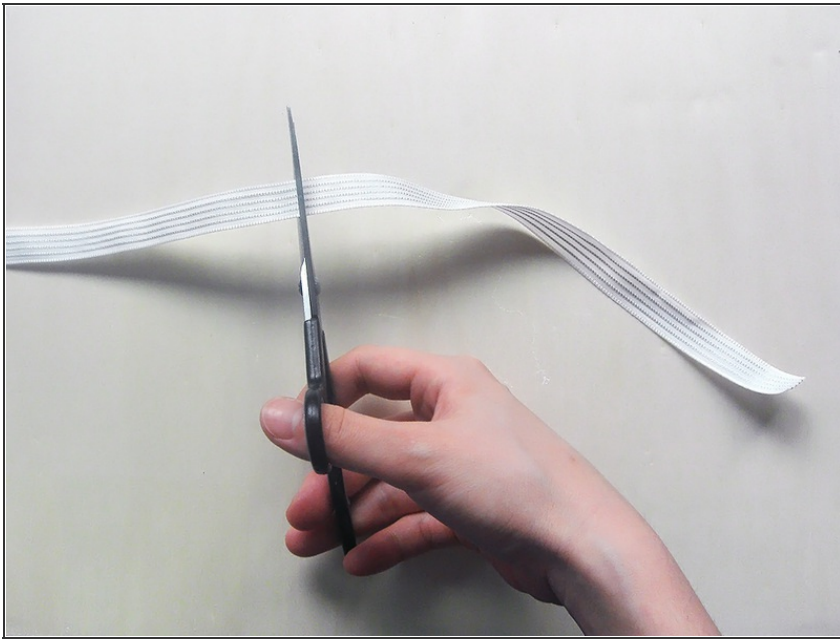
- Prepare the components and tools.
- Components
 - conductive thread ribbon cable (can buy from [Adafruit](#) / [SparkFun](#))
 - FFC connectors (0.100" pitch, 4pins, male or female) (can buy from [Digi-Key](#))
- Tools
 - pliers

Step 2



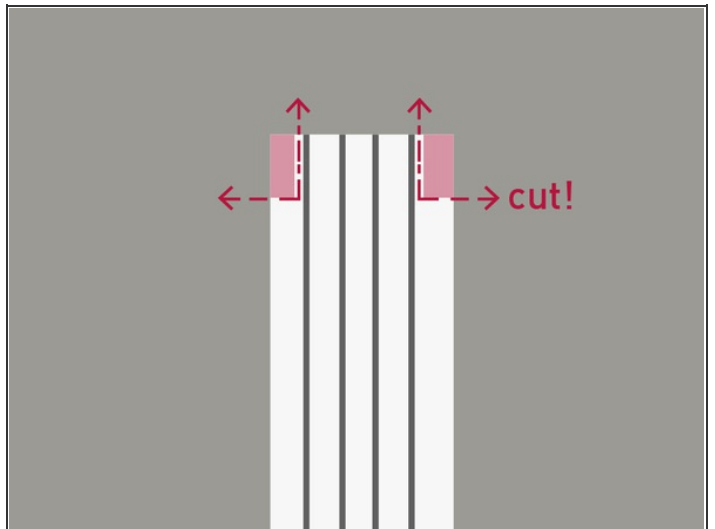
- Understanding the components.

Step 3



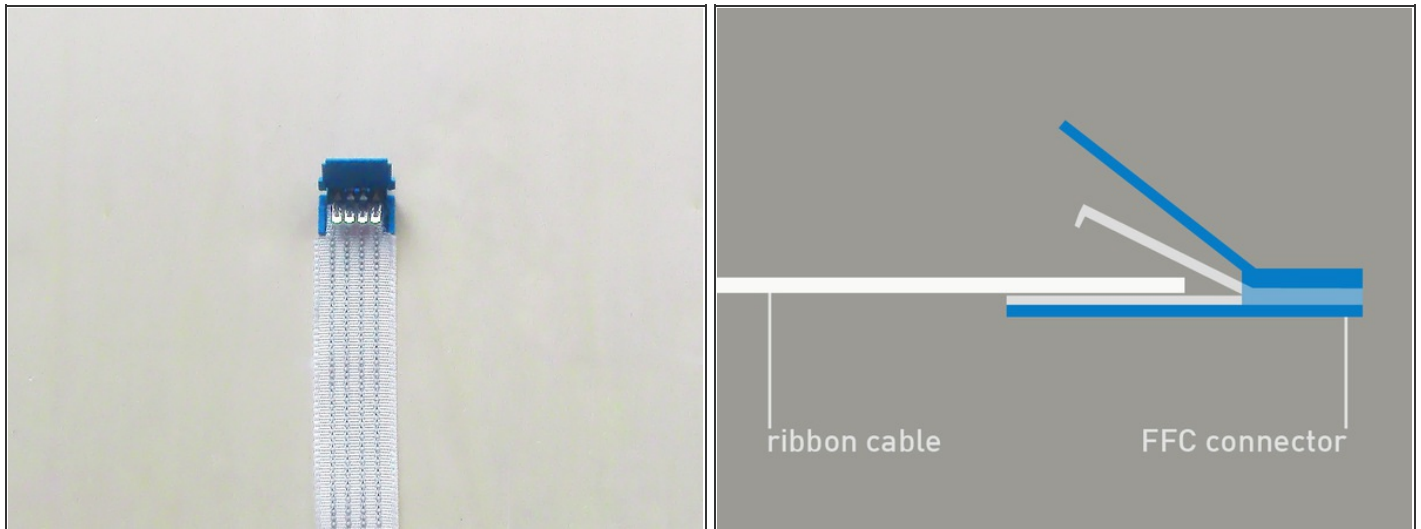
- Cut the conductive thread ribbon cable to the length you need.

Step 4



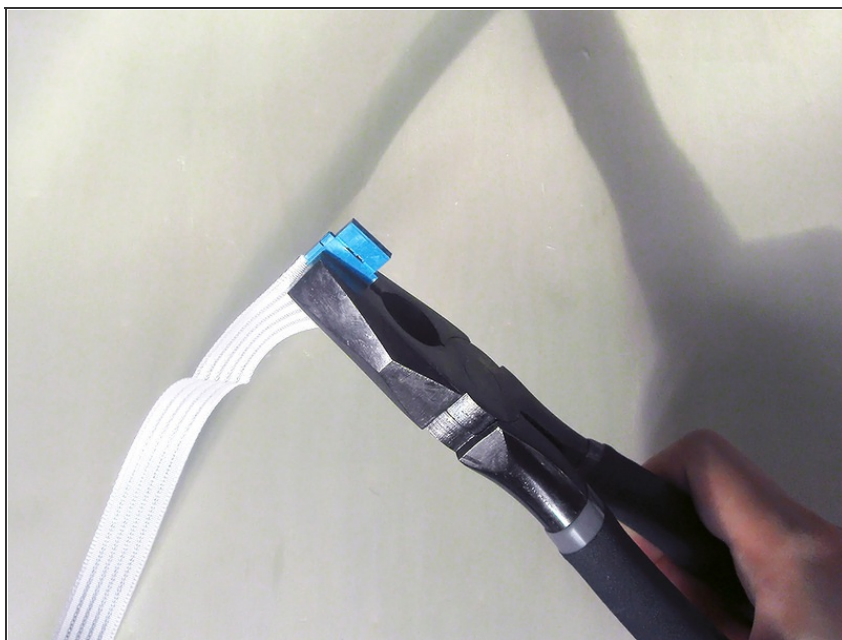
- Cut out the corners at the ends of the ribbon cable so that it will fit into an FFC connector.

Step 5



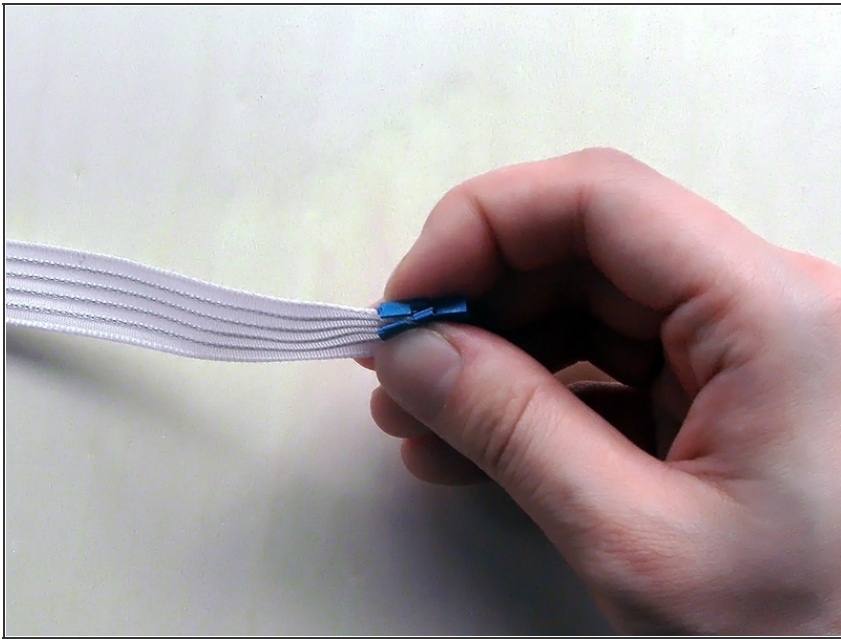
- Place one end of the ribbon cable between the metal crimping parts of an FFC connector.

Step 6



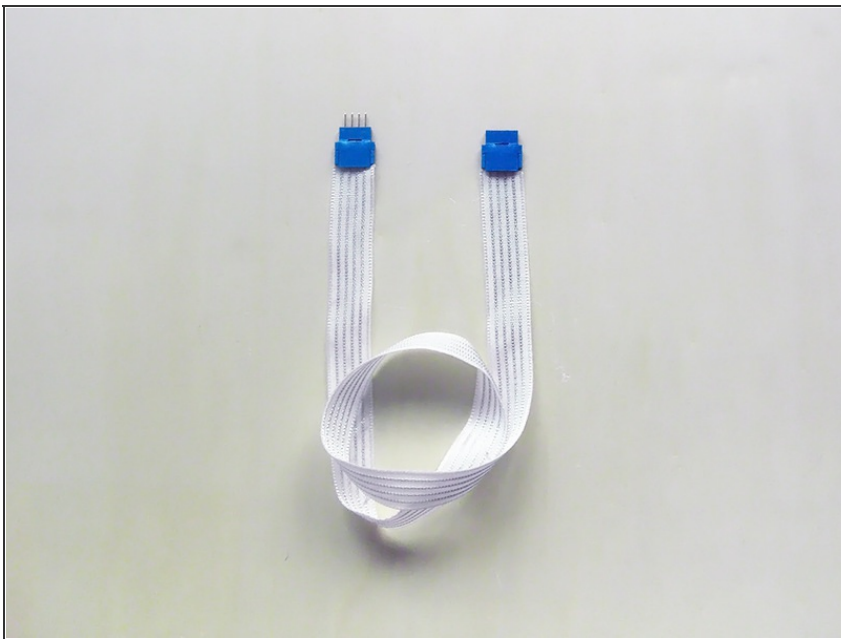
- Crimp the FFC connector with pliers.

Step 7



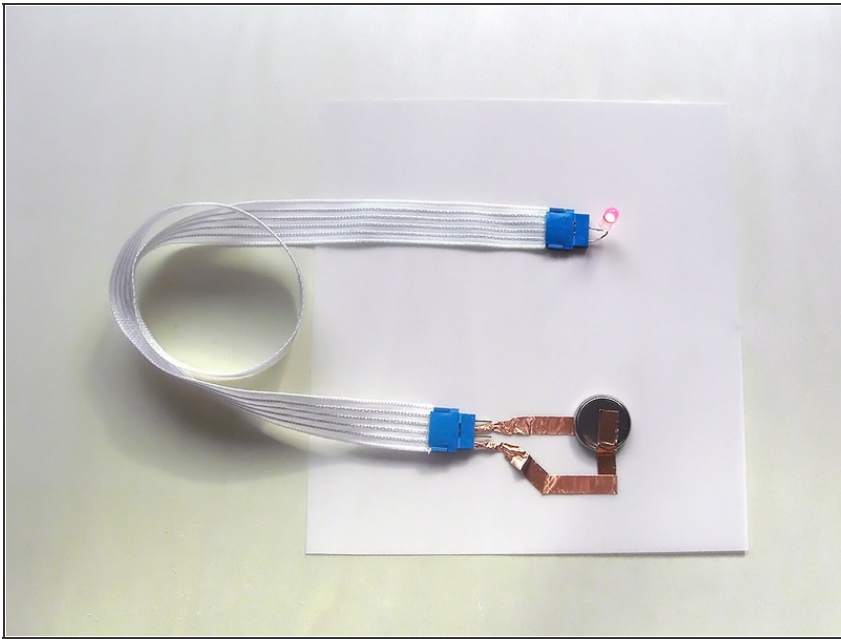
- Lock the FFC connector by pressing side edges of the top cover.

Step 8



- Repeat the same to connect the other end of ribbon cable.

Step 9



- Enjoy the conductive thread ribbon cable!
- If no current flows through the ribbon cable, check the connectivity of the pins and crimp again.

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